



Competitive Benchmarking - M20/M30

Manufacturer	Tennant	Tennant	Advance	Powerboss	Powerboss	Powerboss	American Lincoln	Advance	Advance	Hako	Tennant
Model	M20	M30	CS7000	Nautilus HD	TSS 95 ES	5550	7765	Captor 4800	Captor 5400	B 1500	8410
Machine Type	Sweeper-Scrubber	Sweeper-Scrubber	Sweeper-Scrubber	Sweeper-Scrubber	Sweeper-Scrubber	Sweeper-Scrubber	Sweeper-Scrubber	Sweeper-Scrubber	Sweeper-Scrubber	Sweeper-Scrubber	Sweeper-Scrubber
Sweeping System	Overthrow	Overthrow	Direct Throw	Direct Throw	Direct Throw	Direct Throw	Direct Throw	Direct Throw	Direct Throw	Direct Throw	Direct Throw
Sweeping Path - Total	56 in (1422 mm)	64 in (1630 mm)	61 in (1549 mm)	60 in (1524 mm)	60 in (1524 mm)	55 in (1397 mm)	60 in (1524 mm)	62 in (1575 mm)	62 in (1575 mm)	61 in (1550 mm)	60 in (1524 mm)
Main Brush Length	40 in (1016 mm)	48 in (1220 mm)	36 in (914 mm)	45 in (1143 mm)	48 in (1220 mm)	42 in (1067 mm)	50 in (1270 mm)	40 in (1016 mm)	40 in (1016 mm)	48 in (1220 mm)	45 in (1143 mm)
Side Brush Diameter	21 in (530 mm)	21 in (530 mm)	15 in (381 mm)	20 in (508 mm)	24 in (610 mm)	23 in (585 mm)	24 in (610 mm)	16 in (406 mm)	16 in (406 mm)	Unknown	23 in (585 mm)
Hopper Volume Capacity	3.9 f³ (110 L)	7 f³ (198 L)	7 f³ (198 L)	3.9 f³ (116.7 L)	16 f³ (453 L)	8.5 f³ (241 L)	16 f³ (453 L)	9.2 f³ (261 L)	9.2 f³ (261 L)	3.5 f³ (100 L)	14 f³ (396 L)
Hopper Weight Capacity	390 lbs (177 kg)	650 lbs (295 kg)	300 lbs (136 kg)	390 lbs (177 kg)	1,200 lbs (544 kg)	650 lbs (295 kg)	1,200 lbs (544 kg)	550 lbs (249 kg)	550 lbs (249 kg)	Unknown	1,200 lbs (544 kg)
Hopper Max. Dump Height	60 in (1520 mm)	60 in (1520 mm)	60 in (1520 mm)	60 in (1520 mm)	60 in (1520 mm)	60 in (1520 mm)	60 in (1520 mm)	60 in (1520 mm)	60 in (1520 mm)	42 in (1067 mm)	60 in (1520 mm)
Dust Control System											
Dust Control Type	Panel filter	Panel filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Perma-Filter/Panel Filter
Filter Type	78 f² (7.3 m²) synthetic fiber	78 f² (7.3 m²) synthetic fiber	115 f² filter w/synthetic media	Unknown	Positive-Sealed Panel	Unknown	Panel	Panel	Panel	Unknown	Cellulose Panel
Filtration Level	2.5 microns @ 99% efficiency	3 microns @ 99% efficiency	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	3 microns
Monitoring?	Yes	Yes	Unknown	Unknown	Unknown	Unknown	Unknown	Optional	Optional	Unknown	Yes
Shaker?	Yes, timed beater bar	Yes, timed beater bar	Yes	Unknown	Unknown	Yes	Yes	Yes	Yes	Yes	Yes
Vac Fan Air Flow	290 cfm	290 cfm	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	400/500 cfm
Wet Sweeping Bypass?	Integrated	Integrated	Unknown	Unknown	Unknown	Unknown	Yes	Unknown	Unknown	Unknown	Yes
Scrubbing System											
Scrub Path - Total	54 in (1372 mm)	62 in (1570 mm)	48 in (1220 mm)	60 in (1524 mm)	60 in (1520 mm)	50 in (1270 mm)	54 in (1372 mm)	48 in (1220 mm)	54 in (1372 mm)	57.5 in (1460 mm)	48 in (1220 mm)
Scrub Path - w/o Side Brush	40 in (1016 mm)	48 in (1220 mm)	Unknown	45 in (1143 mm)	N/A	Unknown	54 in (1372 mm)	48 in (1220 mm)	54 in (1372 mm)	51 in (1300 mm)	48 in (1220 mm)
Brush Type	Cylindrical	Cylindrical	Disk	Cylindrical	N/A	Unknown	Disk	Disk	Disk	Disk	Disk
Brush Diameter - Disc	N/A	N/A	(3) 17 in (430 mm)	N/A	(4) 16 in (152 mm)	(3) 17 in (432 mm)	(3) 17.88 in (454 mm)	(3) 18 in (357 mm)	(4) 14 in (356 mm)	Unknown	(3) 16 in (152 mm)
Brush Dimension - Cyl	40 in (1016 mm)	48 in (1220 mm)	N/A	45 in (1143 mm)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Brush Down Pressure	Up to 390 lbs (177 kg)	Up to 390 lbs (177 kg)	Up to 400 lbs (181 kg)	Up to 400 lbs (181 kg)	Variable	Variable	550 lbs (249 kg)	Up to 550 lbs (249 kg)	Up to 550 lbs (249 kg)	Unknown	Up to 450 lbs (204 kg)
Brush Speed	480 rpm	480 rpm	Unknown	425 rpm	Unknown	200 rpm	200 rpm	Unknown	Unknown	220 rpm	180 rpm
Squeegee Width	51 in (1295 mm)	59 in (1506 mm)	Unknown	56 in (1422 mm)	Unknown	54 in (1372 mm)	62 in (1570 mm)	Unknown	Unknown	59.5 in (1510 mm)	59.5 in (1510 mm)
Vac Fan Water Lift	35 in (890 mm)	35 in (890 mm)	48 in (1220 mm)	35 in (890 mm)	Unknown	Unknown	37 in	Unknown	Unknown	Unknown	40 in (1016 mm)
Solution Tank Lift	56 gal (212 L)	75 gal (284 L)	75 gal (284 L)	75 gal (284 L)	100 gal (455 L)	100 gal (455 L)	100 gal (455 L)	81 gal (368 L)	81 gal (368 L)	54 gal (410 L) bladder	60 gal (273 L)
Recovery Tank Size	73 gal (276 L)	95 gal (360 L)	75 gal (284 L)	90 gal (341 L)	100 gal (455 L)	105 gal (477 L)	100 gal (455 L)	81 gal (368 L)	81 gal (368 L)	54 gal (410 L) bladder	60 gal (273 L)
Propelling System											
Engine - Gasoline/LP	GAS Gross Intermitent Power*: 37.8 kW (50.7 hp) @2800 rpm Tennant Governed Power: 30.3 kW (40.6 hp) @2300 rpm LPG Gross Intermitent Power*: 38.5 kW (51.6 hp) @2800 rpm Tennant Governed Power: 31.6 kW (42.4 hp) @2300 rpm	GAS Gross Intermitent Power*: 37.8 kW (50.7 hp) @2800 rpm Tennant Governed Power: 30.3 kW (40.6 hp) @2300 rpm LPG Gross Intermitent Power*: 38.5 kW (51.6 hp) @2800 rpm Tennant Governed Power: 31.6 kW (42.4 hp) @2300 rpm	Kubota 3-Cyl/0.96 L, 30 hp (22.0 kW) - LP/Gas Hybrid	Kubota	53 hp, 4-Cylinder	1.6 L	97 hp Ford	52 hp GM	52 hp GM	N/A	83 hp GM
Engine - M20 Diesel / M30 Turbo Diesel	Gross Intermitent Power*: 18.5 kW (24.8 hp) @2300 rpm Tennant Governed Power: 18.5 kW (24.8 hp) @2300 rpm	Gross Intermitent Power*: 33.0 kW (44.2 hp) @3000 rpm Tennant Governed Power: 30.6 kW (41.0 hp) @2800 rpm	Kubota 3-Cyl/1.26 L, 29 hp (21.7 kW) Hybrid	Kubota	37.5 hp, 3-Cylinder	Kubota 1505	47.3 hp Mitsubishi	44 hp Kubota Turbo	44 hp Kubota Turbo	N/A	49 hp Kubota
Battery	N/A	N/A	36 V/770 aH	N/A	N/A	N/A	N/A	N/A	N/A	Unknown	N/A
Gradeability - Transport	10 deg/18.0%	8.0 deg/14.0%	12 deg/21.0%	10 deg	Unknown	Unknown	Unknown	8.0 deg/14.1%	8.0 deg/14.1%	20%	8.0 deg/14.1%
Gradeability - Working	8.0 deg/14.0%	6.0 deg/10.0%	10 deg/17.6%	8 deg	Unknown	Unknown	Unknown	6.0 deg/10.5%	6.0 deg/10.5%	Unknown	6.0 deg/10.5%
Max. Propel Speed - Forward	8 mph (13 km/h)	8 mph (13 km/h)	5.5 mph (8.9 km/h)	7.7 mph (12.4 km/h)	8 mph (13 km/h)	Unknown	7 mph (11.3 km/h)	6 mph (9.7 km/h)	6 mph (9.7 km/h)	5.2 mph (8.4 km/h)	8 mph (13 km/h)
Max. Propel Speed - Reverse	3 mph (4.8 km/h)	3 mph (4.8 km/h)	Unknown	4 mph (6.4 km/h)	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	3 mph (4.8 km/h)
Tires - Front	(1) 18 in (457 mm), solid	(1) 18 in (457 mm), solid	Unknown	(1) 18 in (457 mm), solid	(2) 16 in (406 mm), solid	(2) 16 in (406 mm), solid	Unknown	Unknown	Unknown	Unknown	(2) 18 in (460 mm), solid
Tires - Rear	(2) 16 in (406 mm), solid	(2) 16 in (406 mm), solid	Unknown	(2) 18 in (457 mm)	(1) 16 in (406 mm), solid	(1) 16 in (406 mm), solid	Unknown	Unknown	Unknown	Unknown	(1) 18 in (460 mm), solid
Machine Dimensions											
Length	95 in (2413 mm)	108 in (2745 mm)	103 in (2620 mm)	95 in (2413 mm)	119 in (3032 mm)	103 in (2616 mm)	107 in (2718 mm)	105 in (2667 mm)	105 in (2667 mm)	111 in (2820 mm)	117 in (2972 mm)
Width w/ Sidebrush	58 in (1473 mm)	64 in (1630 mm)	Unknown	65.5 in (1664 mm)	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Width w/o Sidebrush	50 in (1270 mm)	58 in (1470 mm)	48 in (1220 mm)	55 in (1397 mm)	60 in (1520 mm)	59 in	59 in	50 in	50 in	56 in (142 cm)	63.5 in
Height w/o OHG	58 in (1470 mm)	58 in (1470 mm)	59 in (1500 mm)	60.5 in (1537 mm)	58 in (1470 mm)	53 in	61.5 in	58 in (1470 mm)	58 in (1470 mm)	N/A	64 in
Height w/ OHG	83.5 in (2121 mm)	84 in (2134 mm)	82 in (2080 mm)	83.5 in (2121 mm)	87 in (OHG) 83.5 (Cab)	Unknown	85.5 in	Unknown	Unknown	81 in (205 cm)	83.7 in
Net Weight	3,300 lbs (1497 kg)	4,000 lbs (1845 kg)	4,682/3,693/3,511 lbs (based on battery/engine type)	3,250 lbs (1,474 kg)	3,500 lbs	4000/4250 lbs	4,150 lbs	4,050 lbs	4,050 lbs	6967 lbs (3160 kg)	5,050 lbs
Min. Aisle Turn - Left	110 in (2794 mm)	125 in (3180 mm)	104 in (2640 mm)	107.7 in (2736 mm)	Unknown	Unknown	120 in	118 in	118 in	94.5 in (240 cm)	139 in
Standard Equipment	Integrated sweeping/scrubbing One-button sweep/scrub Breakaway rear squeegee No-tool brush/squeegee change Wheel-mounted control pod Linatex squeegees	Integrated sweeping/scrubbing One-button sweep/scrub Breakaway rear squeegee No-tool brush/squeegee change Wheel-mounted control pod Linatex squeegees	Dual side brooms Polymer body panels One-button sweep/scrub Breakaway rear squeegee No-tool brush/squeegee change	Tilt-up squeegee Pro scrub One-switch scrub control Linatex squeegees No-tool brush change	Polyethylene Tanks Large Screw-on Cap Ports Easy to Maneuver Rugged Construction Large Capacity Hopper Exceptional Productivity	Edge Scrub Deck Easy to Maneuver Rugged Construction Large Capacity Hopper Exceptional Productivity	Patented Accu-Track Squeegee All-Steel Construction Tilt-Out Recovery Tank	*One-Touch* Keypad Dual Side Brooms No-Tool Changes Tip-Out Recovery Tank 4-Sided Squeegee Blade	*One-Touch* Keypad Dual Side Brooms No-Tool Changes Tip-Out Recovery Tank 4-Sided Squeegee Blade	Automatic Squeegee Lift in Reverse No-Tool Brush Change OHG Two Vac Fans Tilt Steering	One-Button Sweep/Scrub Edge Scrubbing Power Steering Two Vac Fans Tilt Steering
Optional Equipment	OHG ES® - Extended Scrubbing system ec-H2O™ Technology AV Safety Warning System Squeegee protection kit Pressure Washer or Spray Hose Side scrubbing or sweeping brush Pro-Panel™ w/ PerformanceView™ FaST®	OHG and Soft Cab ES® - Extended Scrubbing system ec-H2O™ Technology AV Safety Warning System Squeegee protection kit Pressure Washer or Spray Hose Side scrubbing or sweeping brush Pro-Panel™ w/ PerformanceView™ FaST®	OHG Extended Scrub Scrub System EcoFlex Heated water supply Bumper guards Pressure Washer or Spray Hose Side scrubbing or sweeping brush Pro-Panel™ w/ PerformanceView™ FaST®	OHG Chemical Metering Heated solution Backup alarm Safety light package Spray & Vac wand Side scrub	OHG Cab LH Side Broom Strobe Light Back-Up Alarm	OHG LH Side Broom Strobe Light Back-Up Alarm	OHG Side Rollers Suspension Seat Seat Belt Hopper Thermal Sensor Vac Wand	OHG Side Rollers Suspension Seat Seat Belt Hopper Thermal Sensor Vac Wand	OHG Side Rollers Suspension Seat Seat Belt Hopper Thermal Sensor Vac Wand	Side Scrubbing Brush Hazard Warning Light Working Lights Additional Tools for Use with Suction Hose Forklift Battery	OHG AV Back-Up Alarm Solution Recycling Squeegee Wand Rotating Light
Warranty											
(North America only)	36 mo Parts 24 mo Labor 10 Year Tanks and Covers	36 mo Parts 24 mo Labor 10 Year Tanks and Covers	36 mo Parts 12 mo Labor	36 mo Parts 24 mo Labor 10 year Tanks	36 mo Parts 24 mo Labor 5 year Tanks	36 mo Parts 12 mo Labor	36 mo Parts 12 mo Labor Life of Frame/Tanks/Hopper	36 mo Parts 12 mo Labor	36 mo Parts 12 mo Labor	Unknown Unknown	24 mo/2,000 hr Parts 6 mo Labor